



PATENT  
Customer Number 22,852  
Attorney Docket No.: 8731.0007

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
Mark PAUSCH et al. )  
Serial No.: 08/816,011 ) Group Art Unit: 1646  
Filed: March 11, 1997 ) Examiner: Michael D. Pak

For: POTASSIUM CHANNELS, NUCLEOTIDE SEQUENCES ENCODING THEM,  
AND METHODS OF USING SAME

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

AMENDMENT AND RESPONSE

In response to the Office Action dated April 9, 2002 (Paper No. 35), and pursuant to 37 C.F.R. § 1.111, please enter the following amendment and remarks.

IN THE CLAIMS:

Please amend the claims as follows:

*J1 J2 J3*  
22. (Amended) An isolated nucleotide sequence, wherein the nucleotide sequence encodes a protein comprising the amino acid sequence of SEQ ID NO:63.

*J1 J2 J3*  
24. (Twice Amended) An isolated nucleotide sequence comprising.  
(i) the nucleotide sequence of SEQ ID NO:1 or SEQ ID NO:36;  
(ii) a nucleotide sequence that hybridizes to said sequence of SEQ ID NO: 1 or SEQ ID NO:36 under high stringency conditions, wherein said high stringency conditions comprise hybridization conditions comprising 50% formamide and 5X SSPC at 50°C and washing

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